

Control signalling for systems employing link adaptation and incremental redundancy is described. A link adaptation/incremental redundancy message can be transmitted from a receiving entity to a transmitting entity to inform the transmitting entity of the receiving entity's incremental redundancy status or preference. Another message, which indicates whether resegmentation should be performed for retransmitted blocks can also be transmitted from a receiving entity to a transmitting entity. Both of these messages can be used by the transmitting entity to determine an appropriate modulation/coding scheme for subsequent transmissions of both original data blocks and retransmitted data blocks. The messages can be used together or independently in either link (uplink or downlink) between a base station and a mobile station in a radiocommunication system.